

Method Development and Validation of Antihypertensive Drug by using UV Spectroscopy

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Abstract: Hypolipidemic drugs are therapeutic agents designed to lower lipid levels, particularly cholesterol and triglycerides, in the blood. These drugs play a crucial role in managing conditions such as hyperlipidemia, cardiovascular diseases, and metabolic disorders. As the global prevalence of such diseases continues to rise, the demand for effective hypolipidemic treatments grows, prompting ongoing research and development in this field. Rosuvastatin, belongs to class of statins. Which are used to treat the high cholesterol and use to prevent the cardiovascular disease. Rosuvastatin chemically is (3R,5S,6E)-7[4-(4-Fluorophenyl)-2-(N-Methyl-methanesulfonamido)-6-(Propan-2-yl)Pyrimidin-5-yl]-3,5-dihydroxyhept-6-enoic acid.¹ Spectroscopy offers a promising alternative due to its rapid, non-destructive nature and minimal sample requirements.

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